

INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP2004/012453

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H05K13/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H05K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 002 650 A (KURIBAYASHI TAKESHI ET AL) 14 December 1999 (1999-12-14)	1,2,4-7, 9-13, 18-25, 30,31
A	the whole document	14-16,26
X	US 2001/020325 A1 (LUECKEHE HANS-WERNER) 13 September 2001 (2001-09-13) the whole document	1,8,11, 18
X	EP 0 453 370 A (EUROSOFT ROBOTIQUE) 23 October 1991 (1991-10-23) the whole document	1,2,4,7, 8,11,18, 20-22, 24,29-31
A	US 2002/184747 A1 (KURIBAYASHI TAKESHI ET AL) 12 December 2002 (2002-12-12) paragraph '0069!; figure 3	1,5,6

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

28 February 2005

Date of mailing of the international search report

18/05/2005

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Information on patent family members

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PCT/JP2004/012453

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6002650	A	14-12-1999	JP 9205296 A	05-08-1997
			JP 9201749 A	05-08-1997
			AT 279745 T	15-10-2004
			CN 1185842 A ,C	24-06-1998
			DE 69731151 D1	18-11-2004
			EP 0823079 A1	11-02-1998
			WO 9727522 A1	31-07-1997
US 2001020325	A1	13-09-2001	DE 19842951 C1	21-06-2000
			CN 1328764 T	26-12-2001
			WO 0018207 A1	30-03-2000
			DE 59903492 D1	02-01-2003
			EP 1114576 A1	11-07-2001
			JP 2002525883 T	13-08-2002
EP 0453370	A	23-10-1991	FR 2661310 A1	25-10-1991
			EP 0453370 A1	23-10-1991
US 2002184747	A1	12-12-2002	CN 1313024 T	12-09-2001
			DE 69901456 D1	13-06-2002
			DE 69901456 T2	09-01-2003
			EP 1114575 A1	11-07-2001
			WO 0018208 A1	30-03-2000
			JP 2002525884 T	13-08-2002
			TW 461232 B	21-10-2001